

Disk Drive Standard Breather Filter (SBF)

Product Guidelines & Specifications

Description

The Standard Breather Filter (SBF) is comprised of a filtration membrane and a pressure-sensitive adhesive ring for securing the filter to the drive. A diffusion channel can be incorporated within the adhesive layers.

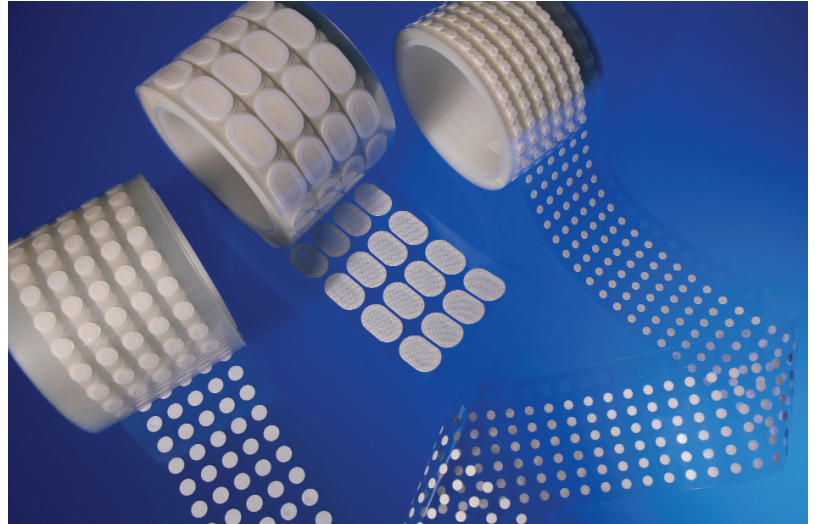
Principle of Operation

The SBF captures particulate contamination as air flows through the filtration membrane.

Installation in Drive

The SBF is placed over a breather hole or a diffusion channel. While this filter can be located outside the disk drive, ideally, it is located inside the drive with a diffusion channel between the breather and the outside environment. The filter location should be in a low-pressure area of the drive so air can enter through the breather. Generally, the best location is on the cover as close as possible to the spindle.

Airflow restriction into the drive is affected by the size of the filter, choice of filter materials, and the design of the diffusion channel. There is a trade-off between the airflow restriction and the amount of diffusion protection.



Parameter

Specification

Performance

| | |
|---------------------|---|
| Maximum Restriction | 43 mm of H ₂ O @5.3 cm/s (10.5 ft/min) |
| Minimum Efficiency | 99.99 - 99.999% on 0.1 µm particles @5.3 cm/s (10.5 ft/min) |

Packaging

| | |
|--------------------|--|
| Release Liner | Polyester with a release coating. Silicone-free coating option available. |
| Roll Configuration | 2000 - 5000 parts per roll on polyethylene cores |
| Bag | Level 100 cleanroom bag free of silicone, amides, and DOP per NVR/FTIR |

Contamination Control

Silicone-free release liner available. Designed to pass the most stringent cleanliness specifications. Manufactured in a cleanroom environment.

Contact Donaldson today for more information!



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